

Title (en)  
BIOMARKER, METHODS, AND COMPOSITIONS THEREOF FOR EVALUATION OR MANAGEMENT OF KIDNEY FUNCTION OR DIAGNOSING OR AID IN DIAGNOSING KIDNEY DYSFUNCTION OR KIDNEY DISEASE

Title (de)  
BIOMARKER, VERFAHREN UND ZUSAMMENSETZUNGEN DAVON ZUR BEURTEILUNG ODER VERWALTUNG DER NIERENFUNKTION ODER ZUR DIAGNOSE ODER ALS HILFSMITTEL BEI DER DIAGNOSE VON NIERENFUNKTIONSTÖRUNGEN ODER NIERENERKRANKUNGEN

Title (fr)  
BIOMARQUEUR, PROCÉDÉS ET COMPOSITIONS ASSOCIÉS POUR L'ÉVALUATION OU LA GESTION DE LA FONCTION RÉNALE OU LE DIAGNOSTIC OU L'AIDE AU DIAGNOSTIC D'UN DYSFONCTIONNEMENT RÉNAL OU D'UNE MALADIE RÉNALE

Publication  
**EP 4096784 A4 20240110 (EN)**

Application  
**EP 21747785 A 20210128**

Priority  
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• US 2021015391 W 20210128

Abstract (en)  
[origin: WO2021154922A1] The levels of prouroguanylin (proUGN), or fragments thereof, present in blood are normally low in humans and are proposed to be involved in the physiologic regulation of oral and vascular salt levels in the body. When certain kidney related diseases or kidney dysfunctions occur, the level of proUGN or fragments thereof can rise dramatically and significantly. This rise of proUGN in the serum can be used as a marker to diagnose and, in turn, treat kidney disease, or monitor disease progression of kidney dysfunction, or can be used to predict the outcome of a treatment program for kidney disease and/or dysfunction. The level of proUGN or fragments thereof can be measured by a novel immunological assay, and a positive result above a cut-off value is diagnostic for chronic kidney disease (CKD). The calibration of that immunological assay can be done best by using a full-length appropriately folded and secreted recombinant human protein without any N'- or C' - terminal tags made in a human kidney cell line.

IPC 8 full level  
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CPC (source: EP US)  
**G01N 33/6893** (2013.01 - EP US); **G01N 2800/347** (2013.01 - EP US); **G01N 2800/52** (2013.01 - EP US)

Citation (search report)  
• [XA] US 2008221022 A1 20080911 - GOY MICHAEL F [US], et al  
• [XA] QIAN XUN ET AL: "The rat kidney contains high levels of prouroguanylin (the uroguanylin precursor) but does not express GC-C (the enteric uroguanylin receptor)", AMERICAN JOURNAL OF PHYSIOLOGY: RENAL PHYSIOLOGY, vol. 300, no. 2, 1 February 2011 (2011-02-01), United States, pages F561 - F573, XP093107499, ISSN: 1931-857X, DOI: 10.1152/ajprenal.00282.2010  
• [XA] GERHARD KAAR ET AL: "Proguanylin and prouroguanylin Assay evaluation and clinical analyte characterization", CLINICA CHIMICA ACTA, ELSEVIER BV, AMSTERDAM, NL, vol. 412, no. 23, 15 August 2011 (2011-08-15), pages 2277 - 2283, XP028309204, ISSN: 0009-8981, [retrieved on 20110824], DOI: 10.1016/J.CCA.2011.08.016  
• [A] ALEKSANDRA SINDIC ET AL: "Mechanisms of actions of guanylin peptides in the kidney", PFLÜGERS ARCHIV - EUROPEAN JOURNAL OF PHYSIOLOGY, SPRINGER, BERLIN, DE, vol. 450, no. 5, 1 August 2005 (2005-08-01), pages 283 - 291, XP019344041, ISSN: 1432-2013, DOI: 10.1007/S00424-005-1464-9  
• See references of WO 2021154922A1

Designated contracting state (EPC)  
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